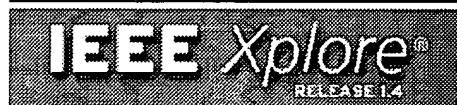


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1 **Technical correspondence: Language integration in the common language runtime** **97%**

Jennifer Hamilton

ACM SIGPLAN Notices February 2003

Volume 38 Issue 2

The Common Language Runtime (CLR) is language and platform-neutral, and provides the underlying infrastructure for the Microsoft .NET Framework. A key innovation in the CLR is its support for multiple programming languages, enabling programming language integration at the runtime level to a much greater degree than is currently possible.

2 **Developing and integrating enterprise components and services:** **82%**

Overcoming independent extensibility challenges

Erik Meijer , Clemens Szyperski

Communications of the ACM October 2002

Volume 45 Issue 10

Independent extensibility requires a strong handle on versioning through precise names.

3 **SI in digital libraries** **82%**

 Nabil R. Adam , Vijayalakshmi Atluri , Igg Adiwijaya

Communications of the ACM June 2000

Volume 43 Issue 6

4 **Components: Building trust in third-party components using component wrappers in the .NET frameworks** **80%**

 Christine A. Mingins , Chee Y. Chan

Proceedings of the Fifth International Conference on Internet, Mobile and Embedded Applications - Volume 10 February 2002

Software purchasers are often provided with very sparse information about how to

correctly deploy software components. We describe a novel contract-based approach to building trust in third party components. In contrast to the usual approach where contracts specifying the software semantics are constructed at the time of source code generation, we retrofit existing components with Contract wrappers. Sets of client requirements on the component are expressed in terms of software contracts using t ...

5 Semantic interoperability in global information systems 80%



A. M. Ouksel , A. Sheth

ACM SIGMOD Record March 1999

Volume 28 Issue 1

Internet, Web and distributed computing infrastructures continue to gain in popularity as a means of communication for organizations, groups and individuals alike. In such an environment, characterized by large distributed, autonomous, diverse, and dynamic information sources, access to relevant and accurate information is becoming increasingly complex. This complexity is exacerbated by the evolving system, semantic and structural heterogeneity of these potentially global, cross-disciplinar ...

6 Object orientation in multidatabase systems 80%



Evaggelia Pitoura , Omran Bukhres , Ahmed Elmagarmid

ACM Computing Surveys (CSUR) June 1995

Volume 27 Issue 2

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

7 Special section on grid computing: Benchmarks for grid computing: a review of ongoing efforts and future directions 77%



Allan Snavey , Greg Chun , Henri Casanova , Rob F. Van der Wijngaart , Michael A. Frumkin

ACM SIGMETRICS Performance Evaluation Review March 2003

Volume 30 Issue 4

Grid architectures are collections of computational and data storage resources linked by communication channels for shared use. It is important to deploy measurement methods so that Grid applications and architectures can evolve guided by scientific principles. Engineering pursuits need agreed upon metrics---a common language for communicating results, so that alternative implementations can be compared quantitatively. Users of systems need performance parameters that describe system capabilities ...

8 An Internet-based negotiation server for e-commerce 77%



Stanley Y.W. Su , Chunbo Huang , Joachim Hammer , Yihua Huang , Haifei Li , Liu Wang , Youzhong Liu , Charnyote Pluempitiwiriyaew , Minsoo Lee , Herman Lam

The VLDB Journal — The International Journal on Very Large Data Bases August 2001

Volume 10 Issue 1

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

9 Semantic heterogeneity resolution in federated databases by metadata implantation and stepwise evolution 77%



Goksel Aslan , Dennis McLeod

The VLDB Journal — The International Journal on Very Large Data Bases October 1999

Volume 8 Issue 2

A key aspect of interoperation among data-intensive systems involves the mediation of metadata and ontologies across database boundaries. One way to achieve such mediation between a local database and a remote database is to fold remote metadata into the local metadata, thereby creating a common platform through which information sharing and exchange becomes possible. Schema implantation and semantic evolution, our approach to the metadata folding problem, is a partial database integration schem ...

10 Going wireless, enabling an adaptive and extensible environment 77%



Theo G. Kanter

Mobile Networks and Applications February 2003

Volume 8 Issue 1

This paper discusses limitations in existing and projected solutions for delivering applications to mobile users (e.g., in 3G) in an increasingly diverse heterogeneous wireless infrastructure in combination with the on-going deregulation of mobile communication and with an increasing number of more narrowly defined roles of parties participating in the delivery of applications to mobile users. Furthermore, for future service growth, users need to be the center of communication via applications t ...

11 Special section on semantic web and data management: The Grid: an application of the semantic web 77%



Carole Goble , David De Roure

ACM SIGMOD Record December 2002

Volume 31 Issue 4

The Grid is an emerging platform to support on-demand "virtual organisations" for coordinated resource sharing and problem solving on a global scale. The application thrust is large-scale scientific endeavour, and the scale and complexity of scientific data presents challenges for databases. The Grid is beginning to exploit technologies developed for Web Services and to realise its potential it also stands to benefit from Semantic Web technologies; conversely, the Grid and its scientific users p ...

12 Developing and integrating enterprise components and services: 77%



Introduction

Ali Arsanjani

Communications of the ACM October 2002

Volume 45 Issue 10

13 Components: A component-based application framework for manufacturing execution systems in C# and .NET 77%



Reinhard Füricht , Herbert Prähofer , Thomas Hofinger , Josef Altmann

Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications - Volume 10 February 2002

This paper describes the design and realization of a component-based application framework to develop Manufacturing Execution Systems (MES). Manufacturing Execution Systems (MES) are a recently defined category of industrial software for the plant floor/manufacturing environment. The overall goal has been to enable the development of MES software systems by composition and extensions of prefabricated building blocks. The framework-based development of MES applications guarantees significant redu ...

14 Visualising reusable software over the web 77%



Stuart Marshall , Kirk Jackson , Robert Biddle , Michael McGavin , Ewan Tempero , Matthew Duignan

Australian symposium on Information visualisation - Volume 9 December 2001

This paper describes an architecture we have developed for web-based visualisation of

remotely executing software. The motivation for this work is to allow users of web-based software repositories to explore existing code components and frameworks, to see what they do, and create *interactive visual documentation* of that code based on the developer's actions. This visual documentation can be used to determine what the code or framework does, how it does it, and whether it can be reused in ...

15 NSDL: Core services in the architecture of the national science digital library (NSDL) 77%



Carl Lagoze , William Arms , Stoney Gan , Diane Hillmann , Christopher Ingram , Dean Krafft , Richard Marisa , Jon Phipps , John Saylor , Carol Terrizzi , Walter Hoehn , David Millman , James Allan , Sergio Guzman-Lara , Tom Kalt

Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002

We describe the core components of the architecture for the National Science Digital Library (NSDL). Over time the NSDL will include heterogeneous users, content, and services. To accommodate this, a design for a technical and organization infrastructure has been formulated based on the notion of a spectrum of interoperability. This paper describes the first phase of the interoperability infrastructure including the metadata repository, search and discovery services, rights management services, ...

16 Session 1 (full technical papers): evolution in source code: Fostering component evolution with C# attributes 77%



Carlo Ghezzi , Mattia Monga

Proceedings of the international workshop on Principles of software evolution May 2002

This paper discusses the problems arising when object oriented libraries are evolved through the subclass mechanism. The overriding of a method may in fact produce undesirable side effects in the behavior of other methods. More generally, the designer of an extension may be unaware of the dependencies among class features, which should be taken into account when a class is evolved. The paper shows how the C# language allows such dependencies to be documented using attributes. Attributes may be re ...

17 Contributed articles: Resource description framework: metadata and its applications 77%



K. Selçuk Candan , Huan Liu , Reshma Suvama

ACM SIGKDD Explorations Newsletter July 2001
Volume 3 Issue 1

Universality, the property of the Web that makes it the largest data and information source in the world, is also the property behind the lack of a uniform organization scheme that would allow easy access to data and information. A semantic web, wherein different applications and Web sites can exchange information and hence exploit Web data and information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

18 Different cultures meet (panel session): lessons learned in global digital library development 77%



Ching Chen , Wen Gao , Hsueh-hua Chen , Li-Zhu Zhou , Von-Wun Soo

Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001

This panel is organized to share the experience gained and lessons learned in developing cutting-edge technology applications and digital libraries when different cultures meet together. "Culture" is interpreted in different ways and different context. This includes the interdisciplinary collaboration among professionals from different fields with their own cultures -- such as library/information science, computer science, humanities, social sciences, science and technology, et ...

19 XML technologies and software engineering

77%



Cecilia Mascolo , Wolfgang Emmerich , Anthony Finkelstein

Proceedings of the 23rd international conference on Software engineering July 2001

20 Dependability of embedded systems



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John Knight

Proceedings of the 23rd international conference on Software engineering July 2001

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